

Product datasheet for **TA320331**

CD16 (FCGR3A) Mouse Monoclonal Antibody [Clone ID: eBioCB16 (CB16)]

Product data:

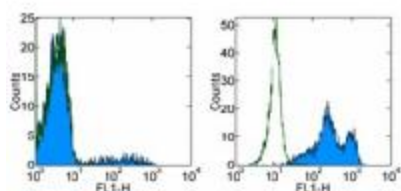
Product Type:	Primary Antibodies
Clone Name:	eBioCB16 (CB16)
Applications:	FC
Recommended Dilution:	Flow
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Fc fragment of IgG receptor IIIa
Database Link:	NP_000560 Entrez Gene 2214 Human P08637

Background: The eBioCB16 monoclonal antibody recognizes CD16 (Fc gammaRIII), the low-affinity receptor for IgG with an apparent molecular weight of 50-80 kDa. CD16 is represented by two similar genes, CD16A (Fc gammaRIIIA), which exists as a hetero-oligomeric polypeptide-anchored form in macrophages and NK cells and CD16B (Fc gammaRIIIB), which exist as a monomeric GPI-anchored form in neutrophils. Furthermore, there are two known polymorphisms of CD16B, NA-1 and NA-2. Individuals homozygous for NA-2 show a lower phagocytic capacity compared with NA-1. CD16 binds IgG in the form of immune complexes and shows preferential binding of IgG1 and IgG3 isotypes and minimal binding of IgG2 and IgG4. Upon IgG binding, both CD16 isoforms initiate signal transduction cascades that lead to a variety of responses including antibody-dependent cell-mediated cytotoxicity (ADCC), phagocytosis, degranulation and proliferation.



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Synonyms:	CD16; CD16A; FCG3; FCGR3; FCGR3; FCGR3; FCR-10; FCRIII; FCRIIIA; IGFR3; IMD20
Protein Families:	ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
Protein Pathways:	Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity, Systemic lupus erythematosus

Product images:

Staining of normal human peripheral blood cells with 0.25 ug of Mouse IgG1 K Isotype Control Purified (open histogram) or 0.25 ug of Anti-Human CD16 Purified (filled histogram) followed by Anti-Mouse IgG FITC and granulocyte (right) gates were used for analysis.